

Appendix table 4-24

## R&amp;D performed abroad by majority-owned foreign affiliates of U.S. parent companies, by selected NAICS industry of affiliate: 2004–08

(Millions of current U.S. dollars)

Industry/sector	NAICS code	2004	2005	2006	2007	2008
All industries	na	25,840	27,653	29,583	34,446	36,991
Mining	21	12	13	23	63	105
Oil and gas extraction	211	4	3	13	38	51
Other	na	8	9	10	25	54
Utilities	22	4	5	7	*	*
Manufacturing	31–33	22,400	23,508	24,172	27,825	29,385
Food	311	627	358	428	517	482
Beverages and tobacco products	312	23	18	18	37	41
Textiles, apparel, and leather products	313–16	68	44	69	89	65
Wood products	321	5	6	5	5	3
Paper	322	88	63	66	50	63
Printing and related support activities	323	11	12	6	9	8
Petroleum and coal products	324	45	25	27	26	24
Chemicals	325	5,629	6,589	6,442	8,670	8,754
Basic chemicals	3251	135	142	163	165	195
Resins and synthetic rubber, fibers, and filaments	3252	235	237	254	253	259
Pharmaceuticals and medicines	3254	4,770	5,665	5,442	7,502	7,578
Soap, cleaning compounds, and toilet preparations	3256	106	151	139	248	220
Other	na	382	393	444	501	502
Plastics and rubber products	326	201	358	388	455	495
Nonmetallic mineral products	327	378	50	43	47	77
Primary and fabricated metals	na	167	303	327	347	353
Primary metals	331	41	53	60	48	72
Fabricated metal products	332	127	250	267	299	280
Machinery	333	781	938	1,120	1,260	1,457
Agriculture, construction, and mining machinery	3331	245	315	330	355	481
Industrial machinery	3332	93	108	256	312	338
Other	na	443	515	533	593	638
Computers and electronic products	334	5,076	4,822	4,954	4,897	6,354
Computers and peripheral equipment	3341	472	211	154	223	912
Communications equipment	3342	2,757	1,961	2,005	1,767	1,863
Audio and video equipment	3343	D	D	D	D	D
Semiconductors and other electronic components	3344	1,271	1,928	2,014	1,917	2,463
Navigational, measuring, and other instruments	3345	517	546	589	676	D
Magnetic and optical media	3346	D	D	D	D	8
Electrical equipment, appliances, and components	335	533	623	652	474	586
Transportation equipment	336	7,926	8,021	8,505	9,663	9,163
Motor vehicles, bodies and trailers, and parts	3361, 3362, 3363	7,362	7,471	7,911	9,067	8,541
Other	na	564	550	595	596	622
Furniture and related products	337	43	18	17	7	10
Miscellaneous manufacturing	339	798	1,261	1,102	1,275	1,450
Wholesale trade	42	796	931	1,131	1,365	1,461
Professional and commercial equipment and supplies	4234	312	327	466	473	525
Petroleum and petroleum products	4247	2	2	3	3	2
Drugs and druggists' sundries	4242	57	65	148	351	668
Other	na	426	536	515	538	266
Information	51	576	689	1,053	1,618	1,954
Publishing industries	511	547	612	980	D	1,810
Motion picture and sound recording industries	512	0	*	*	0	0
Broadcasting (except Internet) and telecommunications	na	5	D	5	D	D
Broadcasting (except Internet)	515	1	D	1	D	1
Telecommunications	517	4	D	3	5	D
Internet, data processing, and other information services	516, 518, 519	23	D	68	D	D
Finance (except depository institutions) and insurance	52	2	5	1	*	2
Finance, except depository institutions	na	2	4	1	*	1
Securities, commodity contracts, and other intermediation and related activities	523	2	4	1	*	1

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(Millions of current U.S. dollars)

Industry/sector	NAICS code	2004	2005	2006	2007	2008
Other finance, except depository institutions	na	0	*	*	0	0
Insurance carriers and related activities	524	*	1	*	*	*
Professional, scientific, and technical services	54	1,986	2,371	3,098	3,439	3,963
Architectural, engineering, and related services	5413	D	61	73	D	103
Computer systems design and related services	5415	731	1,218	1,290	987	1,076
Management, scientific, and technical consulting	5416	D	14	D	D	289
Advertising and related services	5418	2	2	2	3	3
Other	na	1,114	1,076	D	2,133	2,492
Other industries	na	65	132	98	135	121
Agriculture, forestry, fishing, and hunting	11	D	9	9	10	11
Construction	23	7	2	7	1	1
Retail trade	44–45	4	16	18	60	D
Transportation and warehousing	48–49	0	*	3	1	1
Real estate and rental and leasing	53	*	1	1	2	2
Real estate	531	0	0	0	0	0
Rental and leasing (except real estate)	532	*	1	1	2	2
Management of nonbank companies and enterprises	55	D	60	8	10	31
Administration, support, and waste management	56	6	33	41	46	D
Health care and social assistance	62	0	0	0	0	0
Accommodation and food services	72	*	3	3	3	3
Accommodation	721	0	0	0	0	0
Food services and drinking places	722	*	3	3	3	3
Miscellaneous services	na	7	7	8	2	1

\* = ≤\$500,000; D = suppressed to avoid disclosure of confidential information; na = not applicable; NA = not available

NAICS = North American Industry Classification System

NOTES: Preliminary estimates for 2008. Data for majority-owned (>50%) nonbank foreign affiliates of nonbank U.S. parents. Data include R&D expenditures performed by affiliates, whether for themselves or for others under contract. Data exclude R&D expenditures by others for affiliates under contract. Industries are classified by the Bureau of Economic Analysis using the International Survey Industry classification system based on the NAICS. Data for 2004–08 are based on the 2002 NAICS. NAICS revisions, for example, affected several industries under information (NAICS 51). In addition, industry 4214 (Professional and commercial equipment and supplies) under 1997 NAICS code was split among several 2002 NAICS codes, including but not limited to the new code for this industry, NAICS 4234. Therefore, data for this industry in appendix table 4-23 are not necessarily comparable with data in the present table.

SOURCE: Bureau of Economic Analysis, Survey of U.S. Direct Investment Abroad (annual series), <http://www.bea.gov/international/index.htm#omc>, accessed 15 February 2011.